

In the claims:

1. (currently amended) A cooling system for an enclosure containing heat-producing equipment, said enclosure having an inlet allowing air from an environment containing the enclosure to enter the enclosure, the air from the environment being at a first temperature level and having a saturation temperature, the inlet being situated relative to the equipment such that the air passing therethrough to absorb heat from the equipment is increased to a second temperature level and thereafter ~~exiting~~ exits the system through an outlet, the cooling system comprising:

a temperature sensor;

a controller;

an air-to-liquid heat exchanger positioned and adapted to remove the heat from the air exiting the enclosure, wherein the heat exchanger expels the heat outside the environment containing the enclosure;

the controller controlling refrigerated fluid flowing through the heat exchanger in response to the temperature sensor to maintain the temperature of the air exiting the heat exchanger above the saturation temperature, thus preventing condensation.

2. (previously presented) The cooling system of claim 1, wherein the heat exchanger further comprises an air vent, whereby air present in the heat exchanger is expelled when the heat exchanger is charged with liquid.

3. (previously presented) The cooling system of claim 1, further comprising a fan situated to move air through the heat exchanger.

4. (previously presented) The cooling system of claim 3, wherein the fan is selected from the group consisting of a centrifugal blower, a cross-flow blower, an axial fan and a plug fan.

5. (previously presented) The cooling system of claim 3, wherein the heat exchanger and the fan are attachable to the enclosure.

6. (previously presented) The cooling system of claim 1, further comprising a valve regulating refrigerated liquid flow through the heat exchanger.

7. (currently amended) The cooling system of claim 6, ~~further comprising:~~
~~a temperature sensor for sensing a temperature of air exiting the heat exchanger; and~~
~~a temperature controller coupled to the sensor for modulating~~ wherein the controller
modulates the valve in response to the temperature of the air exiting the enclosure.

8. (currently amended) An enclosure containing heat-producing equipment, comprising:
an air inlet for admitting air from an environment containing the enclosure, the air from
the environment being at a first temperature level, the equipment being situated
relative to the air inlet such that ~~wherein~~ the air absorbs heat from the equipment
increasing the temperature of the air to a second temperature level;
an air outlet for expelling the heated air from the enclosure; and

an air-to-liquid heat exchanger situated outside the enclosure adjacent to the air outlet, the heat exchanger absorbing heat from the heated air exiting the enclosure and expelling the heat outside the environment using a cooling liquid as a heat transfer medium.

9. (previously presented) The enclosure of claim 8, further comprising a fan disposed to force air through the heat exchanger.

10. (previously presented) The enclosure of claim 9, wherein the fan is selected from the group consisting of a centrifugal blower, a cross-flow blower, an axial fan and a plug fan.

11. (previously presented) The enclosure of claim 10, further comprising a modulating valve for regulating cooling liquid flow through the heat exchanger.

12. (previously presented) The enclosure of claim 11, further comprising a temperature sensor sensing temperature of the air exiting the heat exchange and a temperature controller modulating the valve in response to the temperature exiting the heat exchanger.

13. (currently amended) An enclosure containing heat-producing equipment, comprising:
an air inlet for admitting air from an environment containing the enclosure, the air
absorbing heat from the equipment,
an air outlet for expelling the air from the enclosure;

~~means for exchanging heat~~ a first heat exchanger situated proximate the air outlet to
remove the heat from the air expelled from the enclosure with a cooling liquid;
~~said means disposed proximate the air outlet;~~

a second heat exchanger located outside the environment containing the enclosure, the
second heat exchanger receiving the cooling liquid from the first heat exchanger
such that the heat absorbed from the equipment is expelled outside the
environment containing the enclosure;

whereby the air returns to the environment at a temperature approximately equal to the
temperature of the environment.

14. (currently amended) The enclosure of claim 13, further comprising ~~means~~ a fan for
moving the air through the ~~means for exchanging~~ first heat exchanger.

15. (canceled)

16. (currently amended) A method for cooling an enclosure containing heat-generating
equipment, the method comprising:

drawing air into the enclosure at a first temperature level from an environment containing
the enclosure;

passing the air in the vicinity of the heat-generating equipment to absorb heat from the
equipment, thus increasing the temperature of the air to a second temperature
level;

passing the heated air through an air-to-liquid heat exchanger, whereby a cooling liquid
absorbs heat from the heated air;
returning the air to the environment containing the enclosure after the cooling liquid has
absorbed the heat therefrom to return the air to the first temperature level; and
rejecting heat from the cooling liquid outside the environment containing the enclosure.

17. (previously presented) The method of claim 16, further comprising modulating
cooling liquid flow through the heat exchanger so as to regulate the temperature of the air
returned to the environment to the ambient temperature of the environment containing the
enclosure.

18. (previously presented) The cooling system of claim 7, wherein the heat exchanger
cools the temperature of the air exiting the enclosure to equal the ambient temperature of the air
in the environment containing the enclosure.

19. (previously presented) The cooling system of claim 12, wherein the heat exchanger
cools the temperature of the air exiting the enclosure to equal the ambient temperature of the air
in the environment containing the enclosure.

20. (new) A cooling system for an enclosure containing heat-producing equipment, said
enclosure having air passing therethrough to absorb heat from the equipment and thereafter
exiting the system, the cooling system comprising:

an air-to-liquid heat exchanger positioned and adapted to remove the heat from the air exiting the enclosure, wherein the heat exchanger expels the heat outside the environment containing the enclosure;

a valve regulating refrigerated liquid flow through the heat exchanger;

a temperature sensor for sensing a temperature of air exiting the heat exchanger; and

a temperature controller coupled to the sensor for modulating the valve in response to the temperature of the air exiting the enclosure.

21. (new) An enclosure containing heat-producing equipment, comprising:

an air inlet for admitting air from an environment containing the enclosure, wherein the air absorbs heat from the equipment;

an air outlet for expelling heated air from the enclosure;

an air-to-liquid heat exchanger adjacent to the air outlet, the heat exchanger absorbing heat from the heated air exiting the enclosure and expelling the heat outside the environment using a cooling liquid as a heat transfer medium;

a modulating valve for regulating cooling liquid flow through the heat exchanger;

a temperature sensor sensing temperature of the air exiting the heat exchanger; and

a temperature controller modulating the valve in response to the temperature exiting the heat exchanger.

22. (new) A method for cooling an enclosure containing heat-generating equipment, the method comprising:

drawing air into the enclosure from an environment containing the enclosure;

passing the air in the vicinity of the heat-generating equipment to absorb heat from the equipment;
passing the heated air through an air-to-liquid heat exchanger, whereby a cooling liquid absorbs heat from the heated air;
returning the air to the environment containing the enclosure after the cooling liquid has absorbed the heat therefrom;
modulating cooling liquid flow through the heat exchanger so as to regulate the temperature of the air returned to the environment to the ambient temperature of the environment containing the enclosure; and
rejecting heat from the cooling liquid outside the environment containing the enclosure.

23. (new) A method for cooling an enclosure containing heat-generating equipment, the method comprising:

drawing air into the enclosure from an environment containing the enclosure;
passing the air in the vicinity of the heat-generating equipment to absorb heat from the equipment;
passing the heated air through an air-to-liquid heat exchanger in which a cooling liquid absorbs heat from the heated air;
controlling the cooling liquid to maintain the air returning to the environment containing the enclosure at a temperature above a saturation temperature of air in the environment containing the enclosure; and
rejecting heat from the cooling liquid outside the environment containing the enclosure.